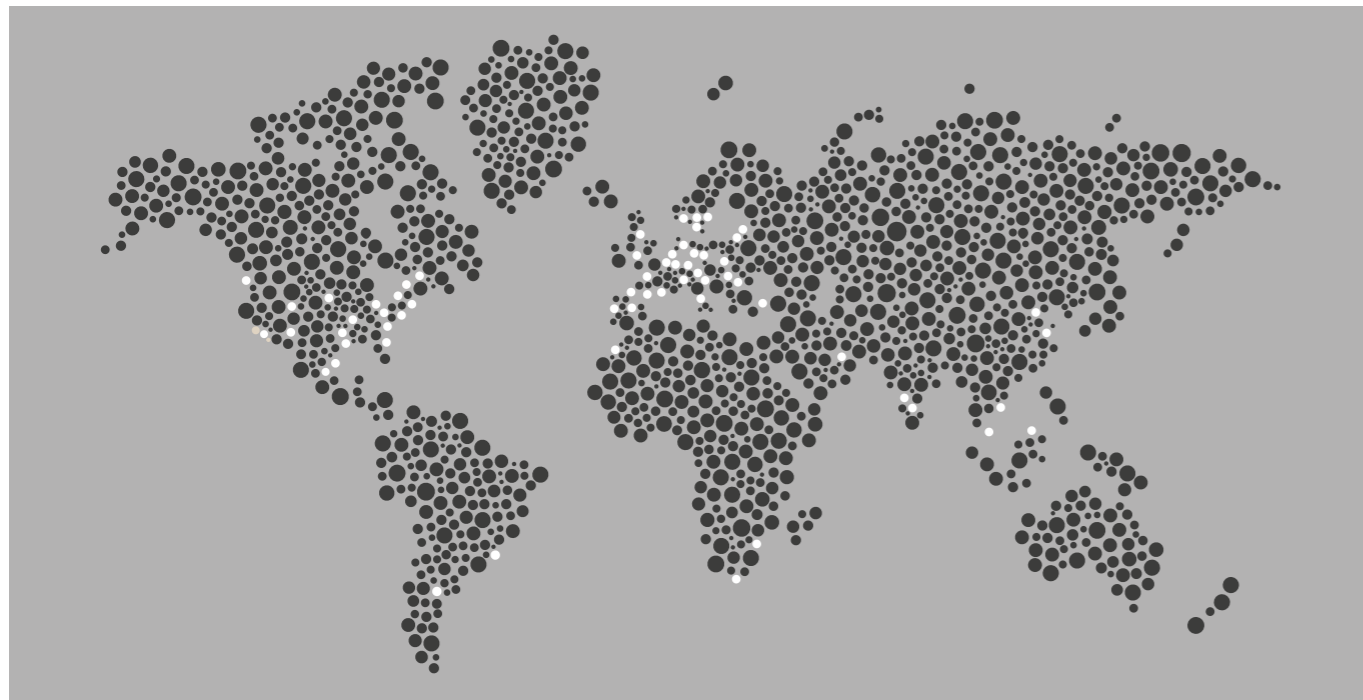




## Marine Standard Items



# Your worldwide supplier of aluminium solutions



### We add value to your marine constructions








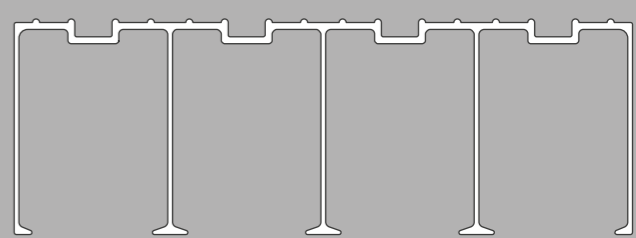




Working with our customers and using a combination of our extrusion technology and Friction Stir Welding (FSW) techniques, Hydro can help ship builders obtain weight and production savings to improve the quality and efficiency of vessels.

Hydro has extensive experience in extruded aluminium for

marine applications, supplying components designed to meet heavy structural loads and to cope with aggressive environments.

Compared to steel, aluminium offers significant weight reductions without sacrificing structural strength and the unique qualities of extruded component design provide exceptionally high torsion resistance.

# Profiles

|  |   |
|--|---|
| <br>1 Angles Even .....6    | <br>8 Round Tubes ..... 10       |
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# Typical mechanical properties

## Typical mechanical properties of Hydro's alloys

| Grade | Si       | Fe   | Cu   | Mn                | Mg       | Cr                | Zn   | Ti   | Other elements <sup>1)</sup> |       |
|-------|----------|------|------|-------------------|----------|-------------------|------|------|------------------------------|-------|
|       |          |      |      |                   |          |                   |      |      | Each                         | Total |
| 5083  | 0,40     | 0,40 | 0,10 | 0.40-1.0          | 4.0-4.9  | 0.05-0.25         | 0,25 | 0,15 | 0,05                         | 0,15  |
| 6005A | 0.50-0.9 | 0,35 | 0,30 | 0.5 <sup>2)</sup> | 0.40-0.7 | 0.3 <sup>2)</sup> | 0,20 | 0,10 | 0,05                         | 0,15  |
| 6082  | 0.7-1.3  | 0,50 | 0,10 | 0.40-1.0          | 0.6-1.2  | 0,25              | 0,20 | 0,10 | 0,05                         | 0,15  |

<sup>1)</sup> Includes Ni, Ga, V and listed elements for which no specific limit is shown. Regular analysis need not be made.

<sup>2)</sup> Mn + Cr: 0.12-0.50

## Typical mechanical properties of Hydro's marine alloys

|                             | 6005A |                   | 6082              |                   | 5083              |                   |                   |
|-----------------------------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                             | T4    | T6                | T4                | T6                | O                 | H112              | H111              |
| Tensile strength UTS (Mpa)  |       | 250 <sup>4)</sup> | 205 <sup>5)</sup> | 310 <sup>6)</sup> | 270 <sup>3)</sup> | 270 <sup>3)</sup> | 275 <sup>3)</sup> |
| Proof strength 0.2% (Mpa)   |       | 200 <sup>4)</sup> | 110 <sup>5)</sup> | 260 <sup>6)</sup> | 110 <sup>3)</sup> | 125 <sup>3)</sup> | 165 <sup>3)</sup> |
| Elongation A min. (%)       |       | 8 <sup>4)</sup>   | 14 <sup>5)</sup>  | 10 <sup>6)</sup>  | 12 <sup>3)</sup>  | 12 <sup>3)</sup>  | 12 <sup>3)</sup>  |
| Corrosion resistance        |       | 5                 | 5                 | 5                 | 6                 | 6                 | 6                 |
| Weldability (MIG)           |       | 5                 | 5                 | 5                 | 6                 | 6                 | 6                 |
| MIG Weld strength UTS (Mpa) |       | 165               | 170               | 170               | 270               | 270               | 270               |

<sup>3)</sup> t < 25   <sup>4)</sup> t < 15   <sup>5)</sup> t < 25   <sup>6)</sup> 5 < t < 25

Density, kg/dm<sup>3</sup> 2.71

Coefficient of linear exp.:  $23.8 \times 10^{-6} / K$

Modulus of elasticity: 70,000 Mpa

Modulus of rigidity: 27,000 Mpa

Poisson's ratio: 0,33

Standard alloys for most profiles in this catalogue are 6005A or 6082, some are made in 5083.

For requirements of profiles in 5083, other than in planks

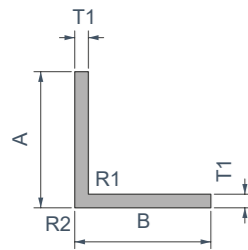
section 8, please get in touch with us and we'll find the ideal solution for your application.

The technical information and instructions in this catalogue are of a general nature and subject to change. Hydro Extrusion does not imply or give guarantees or accept responsibility for the use of the information in any circumstance. It is the responsibility of the reader to consult with Hydro and verify whether the information is correct and suitable for any application.



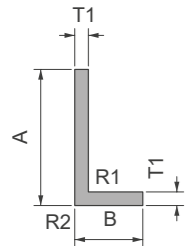
# Angles

## 1 Angles Even



| Height | Width | Thickness | Outer | Inner |       | Country | Die references |        | Alloy   |
|--------|-------|-----------|-------|-------|-------|---------|----------------|--------|---------|
| A      | B     | T1        | R1    | R2    | kg/m  |         |                |        |         |
| 40,0   | 40,0  | 4         |       |       | 0,823 | UK      | 4-0516         |        | 6082-T6 |
| 50,0   | 50,0  | 5         |       |       | 1,29  | UK      | 4-0530         | 006778 | 6082-T6 |
| 60,0   | 60,0  | 6         |       |       | 1,854 | UK      | 4-0683         |        | 6082-T6 |

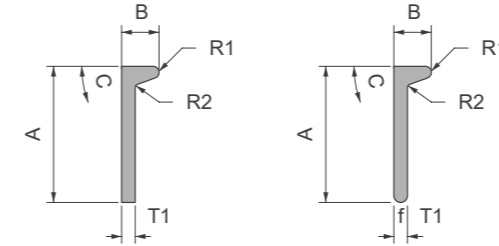
## 2 Angles Uneven



| Height | Width | Thickness | Outer | Inner |       | Country | Die references |                 | Alloy   |
|--------|-------|-----------|-------|-------|-------|---------|----------------|-----------------|---------|
| A      | B     | T1        | R1    | R2    | kg/m  |         |                |                 |         |
| 40,0   | 30,0  | 3         |       |       | 0,545 | UK      | 4-0992         | 006690          | 6082-T6 |
| 50,0   | 25,0  | 3         |       |       | 0,585 | UK      | 4-0973         | UA 05026 040283 | 6082-T6 |
| 60,0   | 40,0  | 4         |       |       | 1,041 | UK      | 4-0548         |                 | 6082-T6 |
| 75,0   | 50,0  | 5         |       |       | 1,626 | UK      | 4-0902         | XUA0755         | 6082-T6 |
| 100,0  | 50,0  | 5         |       |       | 1,965 | UK      | 4-0537         |                 | 6082-T6 |

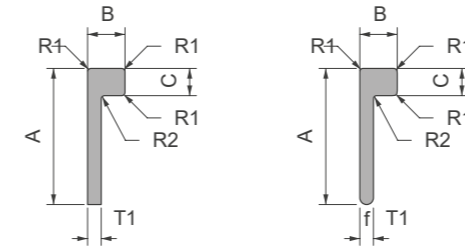
# Bulbs

## 3 Round Bulb (HP Holland Profile)



| Height | Width | Angle | Thickness | Radius |     |       | Type | Country | Die ref. | Alloy   |
|--------|-------|-------|-----------|--------|-----|-------|------|---------|----------|---------|
| A      | B     | C     | T1        | R1     | R2  | kg/m  |      |         |          |         |
| 60,0   | 13,0  | 30    | 3,3       | 3,5    | 3,5 |       | A    |         | New      | 6082-T6 |
| 60,0   | 20,0  | 30    | 6         | 3,5    | 3,5 | 1,247 | A    | UK      | 2-3497   |         |
| 60,0   | 25,0  | 23    | 3,5       | 3      | 8   | 1,123 | B    | UK      | 203646   |         |
| 75,0   | 25,0  | 23    | 4         | 3      | 8   | 1,347 | B    | UK      | 203645   |         |
| 80,0   | 13,6  | 30    | 3,7       | 5      | 5   |       | A    |         | New      | 6082-T6 |
| 80,0   | 23,0  | 35    | 8         | 5      | 5   | 2,240 | A    | UK      | 2-8487   |         |
| 100,0  | 20,0  | 30    | 8         | 4      | 2   | 2,473 | A    | UK      | 209193   |         |
| 100,0  | 21,0  | 30    | 4,2       | 4      | 4   | 1,770 | A    | UK      | 2-7228   | 6082-T6 |
| 100,0  | 22,0  | 30    | 6         | 5      | 10  | 2,158 | A    | UK      | 209191   |         |
| 120,0  | 26,0  | 30    | 4,6       | 5      | 10  |       | A    |         | New      | 6082-T6 |
| 130,0  | 28,0  | 30    | 4,9       | 4,4    | 4,4 | 2,563 | A    | UK      | 2-9953   |         |

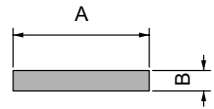
## 4 Square Bulb (HP Holland Profile)



| Height | Width | Angle | Thickness | Radius |     |       | Type | Country | Die ref. | Alloy |
|--------|-------|-------|-----------|--------|-----|-------|------|---------|----------|-------|
| A      | B     | C     | T1        | R1     | R2  | kg/m  |      |         |          |       |
| 45,0   | 11,5  | 8     | 4         | 2      | 0,5 | 0,643 | A    | UK      | 2-3666   |       |
| 50,0   | 15,0  | 12    | 3         | 0,5    | 4   | 0,805 | A    | UK      | 2-5263   |       |
| 60,0   | 15,0  | 11    | 5         | 2      | 0,5 | 1,104 | A    | UK      | 2-3668   |       |
| 60,0   | 20,0  | 10    | 5         | 1,5    | 3,5 | 1,222 | A    | UK      | 4-1275   |       |
| 65,0   | 18,5  | 15    | 3,5       | 1      | 4   | 1,233 | B    | UK      | 205604   |       |
| 75,0   | 21,0  | 17    | 4         | 2      | 4   | 1,598 | A    | UK      | 4-1276   |       |
| 85,0   | 20,0  | 15    | 5         | 0,5    | 2   | 1,754 | A    | UK      | 2-3669   |       |
| 85,0   | 24,0  | 19    | 5         | 1      | 4   | 2,136 | A    | UK      | 205605   |       |
| 90,0   | 22,3  | 17,7  | 4,5       | 3      | 4,5 | 1,952 | A    | UK      | 2-7155   |       |
| 100,0  | 27,0  | 22    | 5         | 2      | 5   | 2,674 | A    | UK      | 4-1277   |       |
| 110,0  | 29,0  | 24    | 5         | 1      | 5   | 3,062 | A    | UK      | 4-1282   |       |
| 120,0  | 32,0  | 27    | 5         | 2      | 5   | 2,609 | A    | UK      | 4-1278   |       |
| 160,0  | 40,5  | 34    | 6,5       | 2      | 6   | 5,969 | A    | UK      | 4-1279   |       |
| 180,0  | 47,0  | 40    | 7         | 1      | 5   | 7,748 | A    | UK      | 207363   |       |

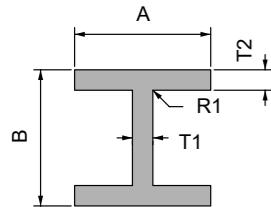
# Flat Bars / I-Beams

## 5 Flat Bars



| Height | Thickness | Radius |       | Country | Die references |           |        | Alloy   |
|--------|-----------|--------|-------|---------|----------------|-----------|--------|---------|
| A      | T1        | R1     | kg/m  |         |                |           |        |         |
| 30,0   | 4,0       | 0,6    | 0,33  | UK      | 4-0512         |           |        | 6082-T6 |
| 40,0   | 4,0       |        | 0,44  | UK      | 4-0513         | BAR 04010 |        | 6082-T6 |
| 50,0   | 5,0       |        | 0,68  | UK      | 4-0174         |           | 008391 | 6082-T6 |
| 50,0   | 6,0       |        | 0,82  | UK      | 4-0657         |           | 040900 |         |
| 60,0   | 6,0       |        | 0,98  | UK      | 4-0658         |           | 040123 | 6082-T6 |
| 80,0   | 6,0       |        | 1,301 | UK      | 4-0991         |           | 040142 |         |
| 80,0   | 8,0       |        | 1,74  | UK      | 4-0666         |           | 040143 | 6082-T6 |
| 100,0  | 6,0       |        | 1,625 | UK      | 4-1280         |           | 004614 | 6082-T6 |
| 100,0  | 8,0       |        | 2,168 | UK      | 4-0885         |           | 040161 |         |
| 100,0  | 10,0      |        | 2,72  | UK      | 4-0654         | BAR 10001 | 014137 | 6082-T6 |
| 120,0  | 10,0      |        | 3,252 | UK      | 4-0795         |           | 040175 |         |
| 120,0  | 12,0      |        | 3,902 | UK      | 4-0285         |           | 040176 |         |

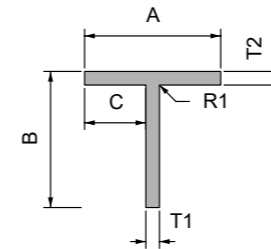
## 6 I-Beams



| Width | Height | Thickness |      | Radius |        | Country | Die references |        |  | Alloy |
|-------|--------|-----------|------|--------|--------|---------|----------------|--------|--|-------|
| A     | B      | T1        | T2   | R1     | kg/m   |         |                |        |  |       |
| 50,8  | 76,2   | 6,5       | 6,5  | 3      | 2,924  | UK      | 4-1021         |        |  |       |
| 76,2  | 76,2   | 4,75      | 6,35 |        | 3,45   | UK      | 4-0390         |        |  |       |
| 76,2  | 101,6  | 6,35      | 7,92 | 5,08   | 4,807  | UK      | 4-1247         | 000745 |  |       |
| 76,2  | 127,0  | 6,35      | 9,52 | 9,4    | 5,992  | UK      | 4-1287         |        |  |       |
| 100,0 | 100,0  | 5         | 5    | 1      | 3,931  | UK      | 203644         |        |  |       |
| 80,0  | 127,0  | 4         | 4    | 5      | 3,073  | BE      | 3730020        |        |  |       |
| 160,0 | 300,0  | 12        | 14   | 5      | 21,04  | BE      | 3730004        |        |  |       |
| 220,0 | 342,0  | 11        | 11   |        | 22,607 | BE      | 3730019        |        |  |       |
| 180,0 | 470,0  | 7,5       | 11   | 5      | 19,779 | BE      | 3730012        |        |  |       |

# T-Bars

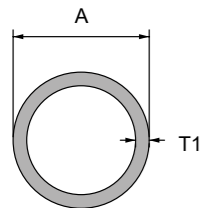
## 7 T-Bars



| Width | Height |   | Thickness | Radius |    | Country | Die references |        |          | Alloy |
|-------|--------|---|-----------|--------|----|---------|----------------|--------|----------|-------|
| A     | B      | C | T1        | T2     | R1 | kg/m    |                |        |          |       |
| 30,0  | 30,0   |   | 3         | 3      |    | 0,470   | UK             | 4-0698 | TE 03002 |       |
| 40,0  | 40,0   |   | 4         | 4      |    | 0,824   | UK             |        | 040811   |       |
| 50,0  | 38,0   |   | 5         | 5      |    | 1,125   | UK             | 4-1263 |          |       |
| 50,0  | 76,0   |   | 8         | 8      | 6  | 2,595   | UK             | 007057 |          |       |
| 50,0  | 100,0  |   | 6         | 8      |    | 2,561   | UK             | 206800 |          |       |
| 75,0  | 150,0  |   | 8         | 10     |    | 5,068   | UK             | 4-0708 |          |       |
| 80,0  | 120,0  |   | 8         | 8      |    | 4,162   | UK             | 207103 |          |       |
| 170,0 | 235,0  |   | 8         | 10     | 8  | 9,556   | BE             | 2351   |          |       |
| 150,0 | 260,0  |   | 5         | 12     | 8  | 8,282   | BE             | 630069 |          |       |
| 70,0  | 170,0  |   | 7         | 15     |    | 6,000   | SE             | F18161 |          |       |

# Round Tubes

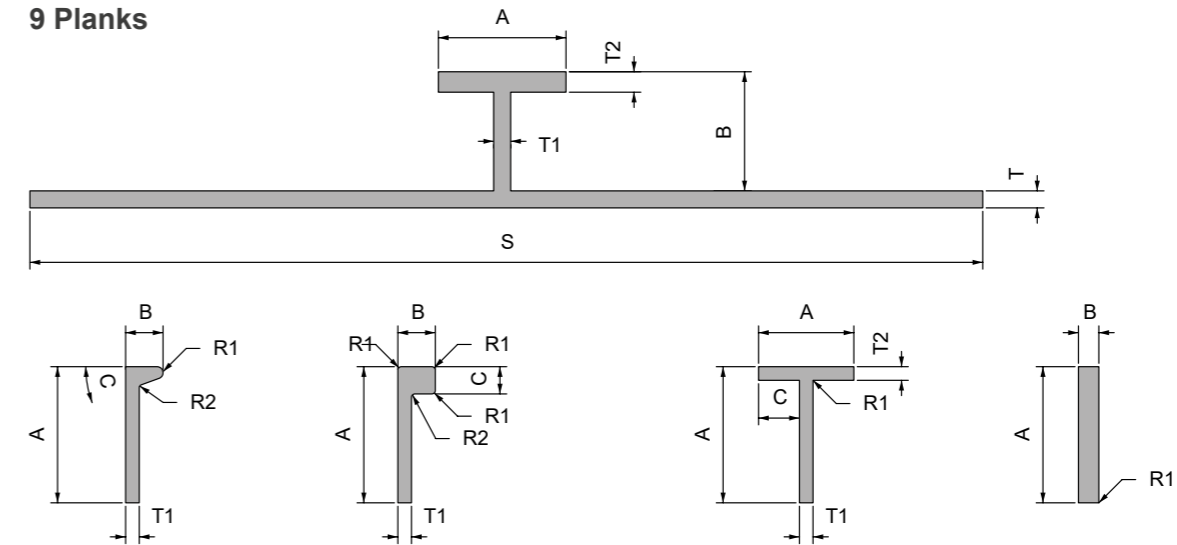
## 8 Round Tubes



| OD    | Thickness |        | Country | Die references |               | Alloy |
|-------|-----------|--------|---------|----------------|---------------|-------|
| A     | T1        | kg/m   |         |                |               |       |
| 25,0  | 3,0       | 0,56   | UK      | 5-0289         | 040468        |       |
| 32,0  | 3,0       | 0,74   | UK      | 5-0238         |               |       |
| 38,0  | 3,0       | 0,894  | UK      | 5-0473         | 039069        |       |
| 50,0  | 3,0       | 1,21   | UK      | 5-0073         | 040521        |       |
| 50,0  | 5,0       | 1,92   | UK      | 5-0160         |               |       |
| 63,5  | 3,0       | 1,545  | UK      |                | TU 06305      |       |
| 75,0  | 3,0       | 1,84   | UK      | 5-0370         | 040565        |       |
| 100,0 | 3,0       | 2,48   | UK      | 5-0453         | 040584        |       |
| 100,0 | 5,0       | 4,06   | UK      | 5-0283         | 011391        |       |
| 100,0 | 6,0       | 4,81   | UK      | 5-0063         |               |       |
| 100,0 | 10,0      | 7,662  | UK      | 5-0375         |               |       |
| 127,0 | 6,4       | 6,527  | UK      |                | L38355 040786 |       |
| 150,0 | 10,0      | 11,919 | UK      | 206157         |               |       |
| 200,0 | 10,0      | 16,176 | BE      | 3930028        |               |       |
| 250,0 | 12,0      | 24,315 | BE      | 3930062        |               |       |
| 262,0 | 16,5      | 34,487 | BE      | 3930032        |               |       |
| 300,0 | 11,5      | 28,246 | BE      | 3930076        |               |       |

# Planks

## 9 Planks



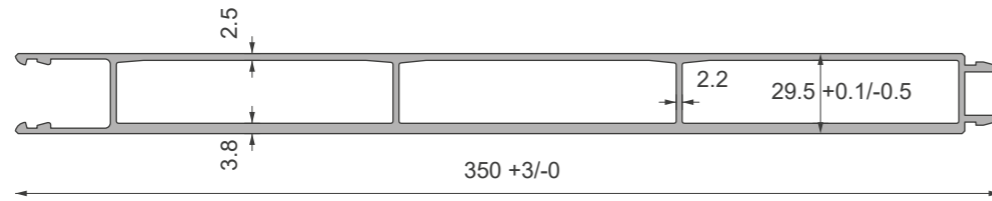
| Stiffener type | Stiffener size  | Skin thickness | Stiffener spacing | Welding | Country | Die ref. | Alloy             |
|----------------|-----------------|----------------|-------------------|---------|---------|----------|-------------------|
|                | AxB             | T              | S                 |         |         |          |                   |
| Round Bulb     | 40x3            | 3              | 250               | FSW     | Sweden  |          | 6082, 6005A       |
| Round Bulb     | 40x5            | 5              | 250               | FSW     | Sweden  | 378282   | 6082, 6005A, 5083 |
| Round Bulb     | 50x4            | 5              | 200               | FSW     | Sweden  | 371296   | 6082, 6005A       |
| Round Bulb     | 50x5            | 5              | 250               | FSW     | Sweden  | 379815   | 6082, 6005A, 5083 |
| Round Bulb     | 60x3.3          | 4              | 300               | FSW     | Sweden  | 380036   | 6082, 6005A       |
| Round Bulb     | 75x5            | 6              | 300               | FSW     | Sweden  |          | 6082, 6005A, 5083 |
| Round Bulb     | 80x6            | 6              | 400               | FSW     | Sweden  | 380161   | 6082, 6005A       |
| Round Bulb     | 100x5           | 6              | 300               | FSW     | Sweden  | 370893   | 6082, 6005A, 5083 |
|                | AxB             | T              | S                 |         |         |          |                   |
| Square Bulb    | 50x4            | 3,5            | 200               | FSW     | Sweden  | 362781   | 6082, 6005A       |
| Square Bulb    | 60x4,3          | 5,5            | 200               | FSW     | Sweden  | 374626   | 6082, 6005A       |
|                | AxB             | T              | S                 |         |         |          |                   |
| Flat Bar       | 60x5            | 5              | 300               | FSW     | Sweden  |          | 6082, 6005A, 5083 |
| Flat Bar       | 80x6            | 6              | 300               | FSW     | Sweden  |          | 6082, 6005A, 5083 |
|                | BxT1/AxT2       | T              | S                 |         |         |          |                   |
| T bar          | 40x3/30x4       | 3              | 250               | FSW     | Sweden  |          | 6082, 6005A       |
| T bar          | 75x3/40x3       | 3              | 200               | FSW     | Sweden  | 367399   | 6082, 6005A       |
| T bar          | 50x3/30x4       | 3,5            | 200               | FSW     | Sweden  | 366405   | 6082, 6005A       |
| T bar          | 50x3/40x5       | 4,5            | 200               | FSW     | Sweden  | 358016   | 6082, 6005A       |
| T bar          | 54.75x5.25/50x6 | 5,25           | 350               | FSW     | Sweden  | 353269   | 6082, 6005A       |
| T bar          | 42x4/20x8       | 5              | 300               | FSW     | Sweden  | 374686   | 6082, 6005A, 5083 |
| T bar          | 75x3/40x3       | 5              | 200               | FSW     | Sweden  | 370885   | 6082, 6005A       |
| T bar          | 50x5/35x8       | 5              | 300               | FSW     | Benelux | 9105090  | 6082, 6005A, 5083 |
| T bar          | 75x5/40x6       | 6              | 300               | FSW     | Sweden  |          | 6082, 6005A, 5083 |
| T bar          | 85x5/30x10      | 5              | 330               | FSW     | Sweden  | 364353   | 6082, 6005A, 5083 |

# Clip Planks

## 10 Clip joint decking planks

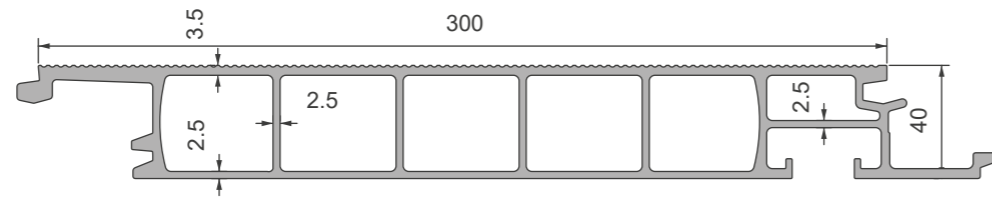
|                       |        |
|-----------------------|--------|
| Die reference         | 2358   |
| Width (mm)            | 350    |
| Height (mm)           | 40     |
| Top skin (mm)         | 3,5    |
| Bottom skin (mm)      | 2,5    |
| Web (mm)              | 2,5    |
| Weight (kg/m)         | 7,66   |
| Ix (cm <sup>4</sup> ) | 28,5   |
| Iy (cm <sup>4</sup> ) | 2642,7 |
| Country               | BE     |

**Board 350 mm x 29.5 mm**



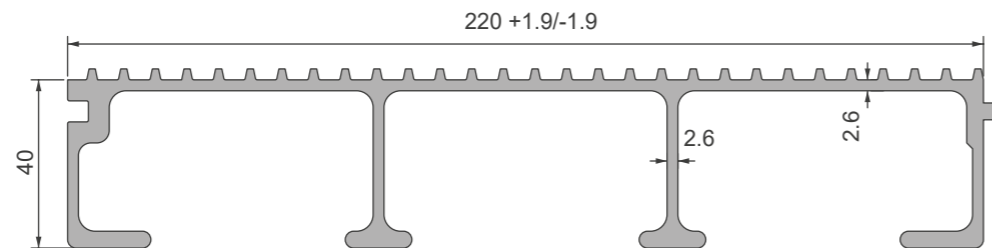
|                       |        |
|-----------------------|--------|
| Die reference         | 451105 |
| Width (mm)            | 300    |
| Height (mm)           | 40     |
| Top skin (mm)         | 3,5    |
| Bottom skin (mm)      | 2,5    |
| Web (mm)              | 2,5    |
| Weight (kg/m)         | 7,67   |
| Ix (cm <sup>4</sup> ) | 66,8   |
| Iy (cm <sup>4</sup> ) | 2759,9 |
| Country               | BE     |

**Board 300 mm x 40 mm**



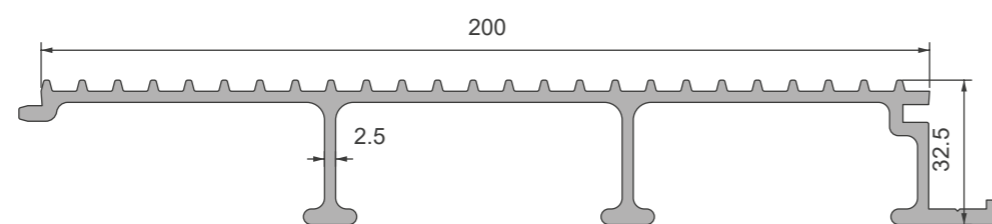
|                       |      |
|-----------------------|------|
| Die reference         | 2408 |
| Width (mm)            | 220  |
| Height (mm)           | 42,6 |
| Top skin (mm)         | 2,6  |
| Bottom skin (mm)      | 2,6  |
| Web (mm)              | 2,6  |
| Weight (kg/m)         | 4,03 |
| Ix (cm <sup>4</sup> ) | 34,4 |
| Iy (cm <sup>4</sup> ) | 819  |
| Country               | BE   |

**Board 220 mm x 42.6 mm**



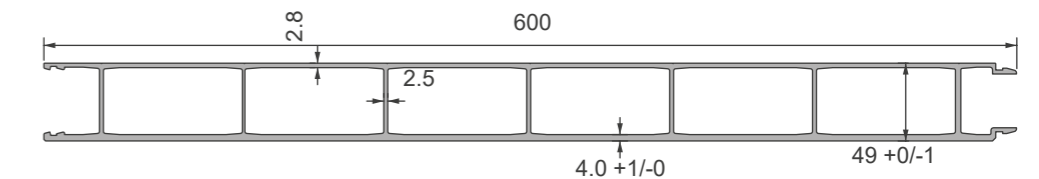
|                       |      |
|-----------------------|------|
| Die reference         | 2557 |
| Width (mm)            | 200  |
| Height (mm)           | 32,5 |
| Top skin (mm)         | 2,5  |
| Bottom skin (mm)      | 2,5  |
| Web (mm)              | 2,5  |
| Weight (kg/m)         | 2,81 |
| Ix (cm <sup>4</sup> ) | 34,4 |
| Iy (cm <sup>4</sup> ) | 819  |
| Country               | BE   |

**Board 200 mm x 32.5 mm**



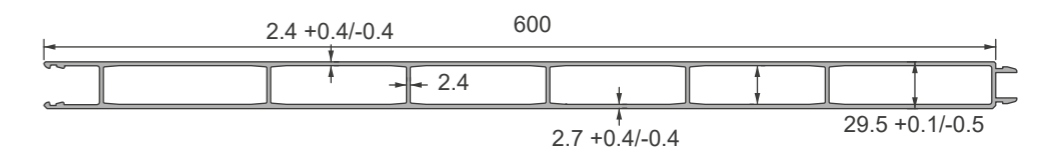
|                       |         |
|-----------------------|---------|
| Die reference         | 2913    |
| Width (mm)            | 600     |
| Height (mm)           | 49      |
| Top skin (mm)         | 2,8     |
| Bottom skin (mm)      | 4       |
| Web (mm)              | 2,5     |
| Weight (kg/m)         | 13,65   |
| Ix (cm <sup>4</sup> ) | 226,7   |
| Iy (cm <sup>4</sup> ) | 15911,3 |
| Country               | BE      |

**Board 600 mm x 49 mm**



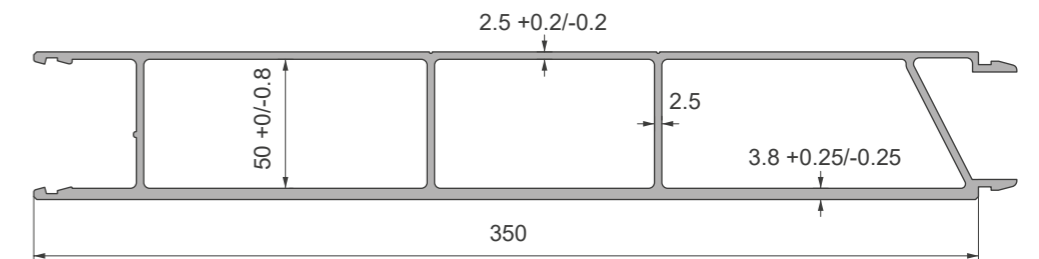
|                       |         |
|-----------------------|---------|
| Die reference         | 1730035 |
| Width (mm)            | 600     |
| Height (mm)           | 29,5    |
| Top skin (mm)         | 2,2     |
| Bottom skin (mm)      | 2,5     |
| Web (mm)              | 2       |
| Weight (kg/m)         | 9,17    |
| Ix (cm <sup>4</sup> ) | 56,3    |
| Iy (cm <sup>4</sup> ) | 10926,3 |
| Country               | BE      |

**Board 600 mm x 29.5 mm**



|                       |      |
|-----------------------|------|
| Die reference         | 2603 |
| Width (mm)            | 350  |
| Height (mm)           | 50   |
| Top skin (mm)         | 3,8  |
| Bottom skin (mm)      | 2,5  |
| Web (mm)              | 2,5  |
| Weight (kg/m)         | 7,43 |
| Ix (cm <sup>4</sup> ) | 128  |
| Iy (cm <sup>4</sup> ) | 3102 |
| Country               | BE   |

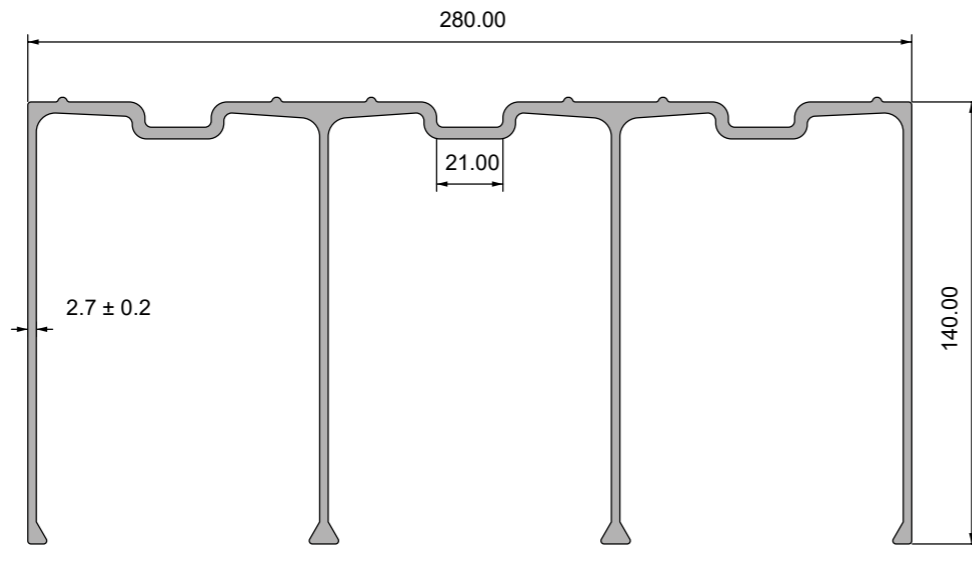
**Board 350 mm x 50 mm**



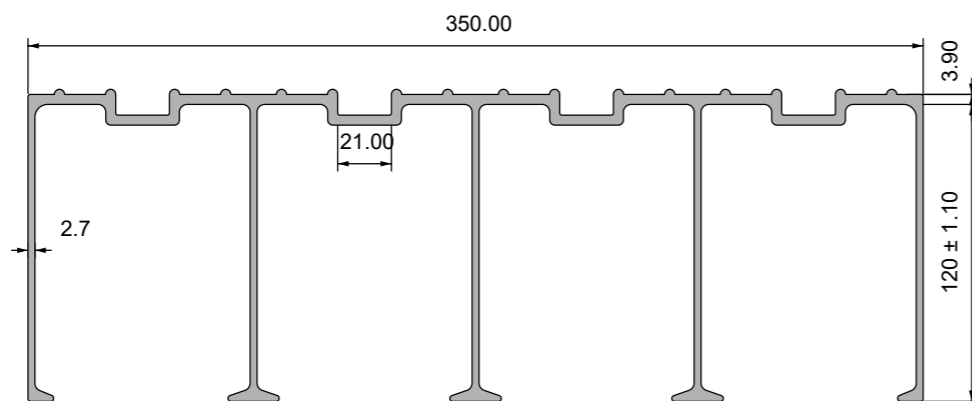
# Reefer Gratings

## 11 Reefer Gratings

|                  |         |
|------------------|---------|
| Die reference    | 2358    |
| Width (mm)       | 350     |
| Height (mm)      | 40      |
| Top skin (mm)    | 3.5     |
| Bottom skin (mm) | 2.5     |
| Web (mm)         | 2.5     |
| Weight (kg/m)    | 7.66    |
| Ix (cm4)         | 28.5    |
| Iy (cm4)         | 2642.7  |
| Country          | BE      |
| Alloy            | 6082-T6 |

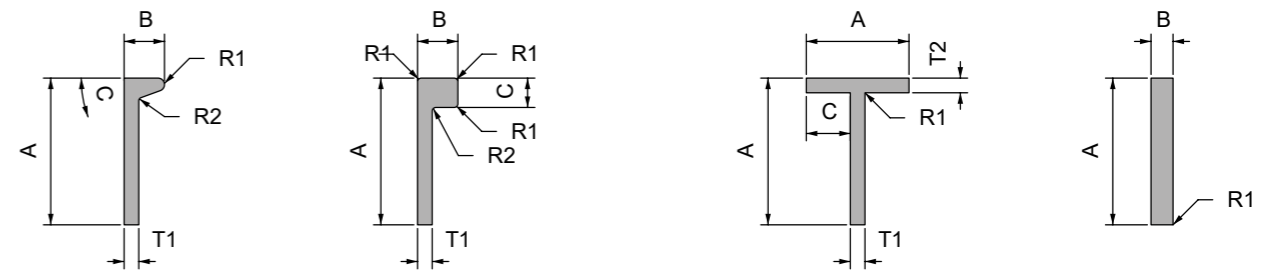


|                  |         |
|------------------|---------|
| Die reference    | 451105  |
| Width (mm)       | 300     |
| Height (mm)      | 40      |
| Top skin (mm)    | 3.5     |
| Bottom skin (mm) | 2.5     |
| Web (mm)         | 2.5     |
| Weight (kg/m)    | 7.67    |
| Ix (cm4)         | 66.8    |
| Iy (cm4)         | 2759.9  |
| Country          | BE      |
| Alloy            | 6082-T6 |



# FSW Panels

## 12 FSW Panels



In case you require more information about the possibilities of Hydro Friction Stir Welded (FSW) panels, please use the Panel Configurator tool that can be found on the Hydro SeaChange portal.

[hydroextrusions.com/seachange](https://hydroextrusions.com/seachange)





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